Missouri Botanical Garden

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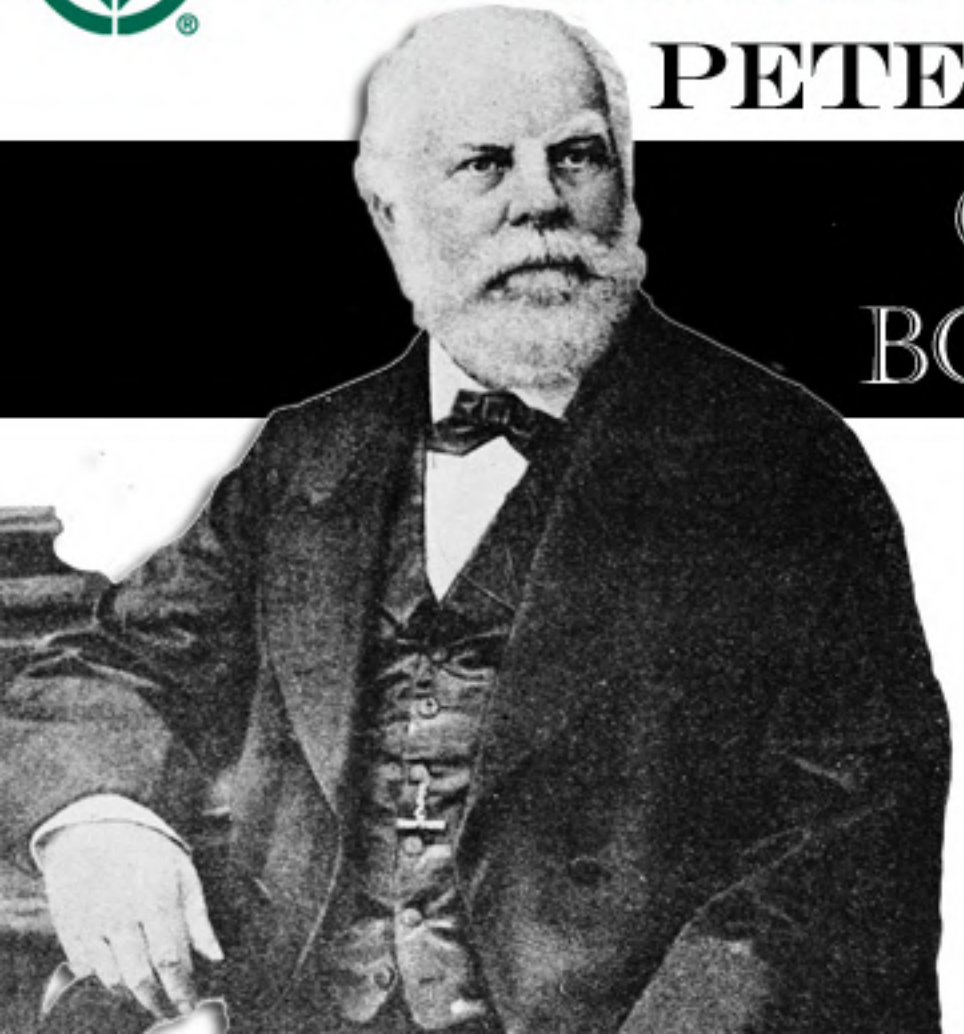

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Caseria rostrata Shuttleworth! in sched.
Cayaponia Boston. Journ N. Hist. V. 225. C. Oxycarpa
Cogn. in sched. × Nearly allied to the last
but flowers smaller & larger (2-3 l. long) ovary
bottle-shaped; capsule ~~ovate~~ very large
(2½-3 inches long) with an elongated two-
pointed beak seeds 1-4, sharply-
developed, ~~flat~~ 1.-1¼ inches; ~~flat~~ ridged about, ~~flat~~, convex on
the inside, ~~roughish~~ ~~rostrate~~ bluntly, with a short
obliquely linear hilum, ~~rather~~ wholly two-valved

† Southern Alleghanies from Maryland
& Virginia, Gray & Sullivant! to South
Carolina, in shady woods or tall coarse herbs
rarely on shrubs; Little Angel! ~~Sullivant~~ Buckley!
Gray & Sullivant! Curtis!

S.

§ 2. Lepidanche

Flowers pedicelled or, mostly, closely sessile; sepals
free, similar to the surrounding sterile bracts, imbricate
ovary and capsule usually more or less com-
~~fleshy compressed~~ thickened and fleshy at the
apex

* Flowers pedicelled, loosely paniculate.

small type

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MISSOURI BOTANICAL GARDEN
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persistent on Sea, Asbrois, and
many other herbs

62 C. crispidata, Eaglan. ! ; Dost. Jan.
N. Hyl. V. p. 224. Pl. Jen. L. 1846 p. 277. — Rocks & gravelly
Mountain Inyos, Lindheimer. ! 125 and 277 Wright !
Schott ! Thurber ! to the Upper Arkansas ! Feather
N. Mex. 659. 6, Marcy, Bricel Bigelow,
and to the Sandhills of the Platte River, Hayden. —
A well marked and easily recognized
plant; inflorescence loosely paniculate with
many stout bracts on the pubescent axis of the calyx;
(rarely 2 (-) 1½-2¼ long) Corymbose, upper ones and sepals
ovate or oblong, acuminate, or ovate
obtuse; ovary not globose as usually
stated by Coul, with a thick stylopod;
seeds many capsule thick oblong at
apex; seeds rarely more than 0.4 C. long;
Rootstock repens with very short and
woolly fascicled fibers. — The form from
the Platte river has smaller flowers, and
almost orbicular sepals. —

63. C. bracteata n. sp.

Caulis teretes filiformes, paniculatim ramosi, paniculati; ramis floribus sparsis cymosis laxis paniculatis pedunculis pubescentibus obtusis; bracteis sepalis ovatis acutis semiamplexicaulibus; sepalis viridis, longis, acuminatis, semiamplexicaulibus tubo rotundo subcylindrico aequantibus basi; laciniis lanceolatis acuminatis tubo brevibus reflexis; staminibus multis

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. [illegible] anthers oblong ovate filaments acquiminate
squamis (medii tubo adnatis) ovatis crispato-
[illegible] fauce attingentibus; stylis
capillaribus ovato globoso minute multo
longioribus; stigmatibus ovato-capitatis.

Gray Bujit [illegible] on Shrubs
Gardner! 3348 — H. Hooker. —
Smith to the last; but flowers much longer,
2½-3 lin. long, [illegible] in thick stems
with retuse reflexed dusk brownish tips with peculiar
orbicular stigmata. Such as I have not
seen in any other species. Among specimens
seen is [illegible] early in flower; the ovary
probably also ripe with stylopod.

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** flowers closely sessile —
mature segments usually with no
clavate.

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64. C. ~~Ippamata~~ n. sp.

caulibus ~~fistulosis~~ acumtatis, ~~multiflorus~~ corymbatis; ~~floribus~~ anthodiis
campanulatis; ~~squamis~~ membranaceis adpressis
seriatim in ~~appendiculis~~ exteriore, interiore longiore
obtusiora (transeuntibus) (tubum cylindraceo-
~~subcylindricum~~ obconicum aequantia
lanceolatis, extus pilosulis ovato-lanceolatis
corollis ~~tubo brevibus~~ tubo brevibus, staminibus tubo brevibus
antheris oblongo lanceolatis; ~~stylis~~ stylis ramulis
acutiusculis; ~~acheniis~~ achenio (medio tubo adnatis)
exacte ~~turbinatis~~ turbinatis, striatis (capillaceis ovatis
~~obtusis~~ obtusiusculis longioribus, extus; capsula
ovata, ~~quinquelata~~ 1–2-sperma, corollae
~~radiantis calyptraeformis~~; seminis subglobosi
laevissimis, ~~vix~~ vix obliquis obconicis,

(Fields and waters on the Rio Grande
on Arroyo Hondo and Atlantic ciliates and
other weeds from El Paso, Wright 518 (coll. 1849)
and 1628 (392) (coll 1852); Organos, Thurber!
Dunes of Presidio del Norte, Parry! — Flowers
(8–12 flowered) 5–6 lines in diam on rounded
only 2 or 3 flowers; ~~2½ lines~~ 2½ lines in diam
flowers; ~~Akin~~ Akin to those of the two last species, but
closely sessile; in other respects much like the next
but flowers bracts appressed, not squarrose etc;
leaves 0.6–0.7 lines long, conjunct when the capsule
contains 2, subglobose when it has only 1 seed
obovate, but rarely ovate, with a very short
subacute apex.

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+ C. Aurora (Montrose), Hook. ‡
= Coop. Rd. Mag. F. 173.

65. C. glomerata Choisy, Cucr. Sk. t. 4 f. 1. DC Prod IX. 458. – Lepidache glomerata Engelm. ! = Ill. Journ. 43 p. 344 + 64. 30–35. + C. paradoxa, Raf. Ann. Nat. 1820. p. 13 ! DC. l. c. ? 461. – Southwest Prairie region. On Hillsides, Solid Syn., Torrey ! on tall Canyons, rarely deer or any other plant, prairies & Openings in Indiana, Clapp ! to Illinois & Missouri. Engelm ! Riehl. ? 5 & 6.; Kansas ! Hayden the upper Arkansas, Fendler. N. Mex. 657, Bigelow ! southward to the Llano in western Texas, Lindheimer. — This, the most striking of all Cercatae has been so fully described that very little is left to be added. The flowers are Heads glomerate, forming two rather large on both sides of the stem, where it is attached to the stem of the next, or somewhat flattened where there is a free space, these clusters of flowers run completely together, and form at last continuous (coil spiral) 6–10 long, black flowers 2½–3 long, rounded by numerous squarrose, double reflexed bracts, tubes of corolla obtuse, not acute ‡. I have no doubt that Raf. merges with C. paradoxa is intended for this plant, though he says the flowers are 4 parted and with scales, but as he certainly to this part exists, that part of the stem has been destroyed. I prefer to let Choisy's name stand. C. aphylla Raf. in Sill. N. Acad. 1. 145; DC. l. c. is probably the same thing,

‡ Heads the smallest; rays 2 or nearly 1, 0.5 long, oval, narrowly rounded very slightly notched, tubes short.

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66. Engl. ÷ Bot. Jahrb. N.H. V. 225

C. comparta Buss. ~~ex~~ in Hb. Chodat!
Curt. 185. t. 4. f. 2. DC Prod. IX, 458 & C. stricta
excl. var. C. canadensis Raf. ann. nat. 1820 p. 13. ?
~~Lepidium adpressa Engl. ! Bot. Jahrb. 45 p. 77~~
C. crenata Bayrich ! ~~Hb.~~ —
in Herb. Kew ~~Hb~~ Hb

~~Chaffy~~ with woods
On all sorts of Shrubs ~~& small trees~~ and
Compton Alum, Andover
trees on ~~rich~~ Stony Bigam ~~&~~ Alum Top, rocky
~~flat ts~~ & ~~flat~~ only occasionally ~~rarely~~ on limestone flats
Mostly 0.7–0.9

On the Alleghany mountains, ~~from~~ ~~New York~~
~~the~~ Pennsylvania to Georgia ~~&~~ Alabama
almost entirely on shrubs, such as, Corylus, Alnus
Andromeda, etc. ~~rarely~~ only occasionally on
Herb. plants. — Clusters, often 1/4 – 1/2 inches in
diameter; ~~often~~ more continuous and thickish,
where the stem is twisted around the nurse,
but also above ~~below~~ where it is free.
Tube of ~~flower~~ corolla slender, ~~hairy~~, oblong; ~~throat~~
corolla raised on top the 1/4 ovule with
capsule, giving it a pointed appearance,
seeds in several rows, exserted, 1–2
rarely 3–4 in each capsule; 0.8–1.0 lin.
long, oval oblong, of ~~diff~~ shape, testa
or ~~cuticle~~ ~~cuticle~~ ~~tuberculate~~ ~~tuberculate~~ finely ~~tuberculate~~ ~~tuberculate~~
~~and~~ ~~usually~~ transverse or perpendicular.

B. adpressa, Lepidium adpressa, Engl.!
in Bot. Jahrb. 45 p. 77; ~~Rich~~ Hb. Kew woods
in the rich bottom lands along the ~~Tennessee~~ Arkansas & Trans
in the Mississippi valley; ~~Texas~~ Western Virginia to
Alabama & Missouri! Engl! & southward to
west Louisiana Greg! & Texas Wright!
Kew Cultivated Comm. Fraxley, Coll. Bigam, Vict. Alum Top
& Parlay! & Com. Auburn plants!

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Tube of rosette cover, lobes broader, capsule thicker, not so much pointed, & rosette not raised to much over it, so that the whole cluster in fruit appears blunter; seeds often usually 2-4 compressed, narrowly carinate, & with a longer & narrower transverse hilum. The difference in the seeds seems to be constant, & this proves that not much importance can be laid on characters derived from them.

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v. Cent. I.

Pg. C. cassytoides, Nees in Linnaea XX p. 196. Spikes dense. — Calafate islands; Falkland; subsessile; ripe spirales; ovary globose lobis obsolete rarius indistincte, verrucosis; ovoli tubi latum brevitubi cylindrici angulibus; lacinii ovati obtusis vix bas. imbricati ovatis tubo aequilongis; antheris rostro — ovato, ad faucem sessilibus; stigma semiglobosum. Fructus pauci distincti, tubo brevioribus; stylo ovario ovato-globoso aequilongo; stigmate capitato bilobo; capsula ovata, semiobovata triangulata, fere 3 cornuta.

Cape of Good Hope; prairies forests of Uitenhage Drege, 8037, Zeyher II. 3631 (120.5); Hangklip Mund & Maire. — Flowers in spikes pairs (3 inches) 1¾ lin long; shorter than the fruit spikes, ripe spikes obtuse or truncate; scarcely dotted; stylus entirely, or in all the following species divided to the base, about to its base, lobes subglobose; capsule 3-4 l. long; seed [illegible] as in the last species.

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Clisto

Sect. 6. Eugrammica.

Styles cylindric, of unequal length, ~~slit~~ ~~somet~~ rarely almost wanting; stigmata capitate. Capsule never opening at base; intrastylar aperture oft large, but not penetrating into the capsule. Seeds ~~all~~ usually developed all 4 or ~~2~~ few, oft the only one; of all shapes, mostly triangular, flattened, or with equal sides, oft rostrate, oft rounded, hilum usually linear, short or longer, transverse or oblique, or rarely perpendicular; ~~flowers~~ reserve variable; ~~loose or~~ ~~(in the last Lepidanthe) very densely crowded~~ and mixed with a large number of sterile bracts.

in loose or finally more or less crowded cymes, racemiform or paniculate, or umbelliform or subcapitate; with ~~the~~ partially equally bracted; or ~~the flowers~~ (in Lepidanthe) the flowers are densely crowded more or less in any other species of the whole genus and interspersed with a large number of sterile bracts.

This section is the most numerous in species, it ~~extends~~ inhabits almost exclusively, some few are peculiar to the ~~eastern~~ Pacific, one inhabits south Africa (C. appressa), and a single one (C. bluifolia) is almost cosmopolite, ~~extending through~~ to many varieties, extending through north & south America to New Holland, China, into central Asia and ~~through~~ south Europe.

Name for the prickly Plants!

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70 C. Timorensis Decaisne! MSS.

Caule fisticulari, glabro sursum ~~spiralis~~ spiralis apice bulbula terminato spiralis, glabro ~~spiralis~~ parcelle bulbilis sessili ~~spiralis~~ superne pedicellis inflorescentiæ longioribus bulbilis superne brunneis medio, omnibus bulbo ovata abbreviata ~~conjunctis~~ connatis suffultis; ~~clypeis~~ profunde ~~XI~~ partitis bulbi ovatis subtilis tunicis corolla ~~aequilongis~~ brunneo campanulato aequilongis; ~~Carinis~~ ovatis obtusis tubo brunneis erectis ~~in~~ sagittatis reflexis; antheris ovato ~~ovatis~~ tubo ~~in~~ supra faucem adnatis; ~~ovulis~~ ~~seu~~ ad cistulas ~~oblique~~ erecta conjunctis ~~oblique adnatis~~ ovulis; ~~adnatis~~ seu subnullis; stylo crasso, ~~ovato subglobosa basi~~ cum stigmatibus ovatis compressis ~~aequilongis~~ ovato subglobosa ~~regulis~~ regularis, capsula ovata carinata, ~~carinis~~ subtilibus tunicis triangulatis compressis. — C. reflexa Decaisne, Fl. Ins. Timor. Descr. p. 66. non Roxb.

Jas. Tinion; Leschenault! — Villars. Bar.

— The scape is regularly spiked inflorescence which is obscured — ~~this~~ ~~all the upper part of the~~ whole ~~plant~~ is incurvedly developed — the upper part of the main axis of the inflorescence is ~~formed~~ formed by a flower, ~~bulbiferous~~ immediately bracted by the bilateral flowers ~~lay~~ into one first the all or only and the upper one is ~~reverse~~ reverse, & the lower ones are supported by long pedicels which bear lateral flowers, the upper one of bearing which is ~~sessile~~ pedicels, & lower

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sterile bracts, or the uppermost are quite
short & without bracts. Flowers 1/2 or 1 2/4 long
long; anthers about sessile a little below the
throat; scales very indistinct, scarcely worthy of
10 slight ridges, ~~towards~~ the in the tube of the
corolla, converging toward the base of the
cutting; † capsule about 1/4 long.

† stigmas ~~at the~~ the style
of the cut of the style only, but not that
and compressed, rarely thicker the style.

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Krock 1787
Vahl 1791
S. Cath. N. Gren.

Cassandra Dod.

11 C. monogyna Vahl Symb. II. 32. DC. Cod 15. 452
C. oxicantha Tourneg. Cor. 45 ; Lobth. ! ; Hk. auctorum pro parte
C. astyla Lange ! Act Jutl. 1846 IV. 276 ; Hk. fil. 16. Jarg.
Monogynella Vahliana Desm. ! Et. 65
C. Crapdens Dod Lust. T. 208 ?

?

There is some confusion about their species
Vahl's description " dentibus corollae laureolatis " et
does not exactly agree with our plant nor is
Lobthop's figure Gaeza t. 257 very correct
still the brevity of the former and a authentic specim
of the latter (in Hk. Jarg.) leave no doubt that both
had the plant in view which I formerly distinguished
as C. astyla Lge The exploration as Salix, Tamarix, Astragalus
etc, also on herbs such as Euphorbia etc
in S. Europe (E & SE) on thorny and dry Asia to Afghanistan
Portugal ? (Boot.) Southern France (apparently
always on the grapevine — introduced ?) Dalmatia ! Asturia ! etc
Freald ski ! (specimens often mixed with C. Europea)
Asia minor, Lobthop ! Cyprus Blanche ! South
Switzerland of the Caucasus, Georgia Hohenack ! Prescott
Finke ! Trick ! Koch ! Songaria Schrenk !
Persia Kotschy ! 713 to Afghanistan Griffith 682
& 684, —

compound spike
2-3 or 4 a small
Corymb of petiolate flowers, with a terminal one, the lower
ones are sometimes branched ; flowers 1/4 - 1 1/2
in long ; corolla about 1 - 1 1/4 in length ;
calyx with obovate lobes, the tube
delicately reticulate, much shorter than the tube
which is entirely coloured ; the calyx ;
lobes ovate or triangular-ovate, cordate, about
as long as the tube or a little less below the throat ;
scales attached to the mouth of the tube, of a horseshoe

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shape, form; a narrow boarder-leaf or very slightly
funnel boarder, which at tip is often truncate
and not rarely bifid; style very short, as long
as the subglobose bilobed stigma; much shorter
the globose or oval ovary; capsule 2-3 lines long,
usually oval and obtuse; seeds rarely numerous
2, ovate, sharply rotulate, slightly rough. ——
(A form with ovate capsule (with) ~~and~~ ~~Syria has been~~ ~~named~~ (occurs in Georgia
in Litt. is a form) Mon. Blancheana Desh.!
it may connect the
following species with this.

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72 C. Lehmanniana Bunge! in Lehm. pl. bot. in Mem. Sav. etr. VII. p. 396. — Bokhara, on the banks of the Jan-Darja, A. Lehmann! — Flowering pedicellate, in a thyrsoid inflorescence, slender, 2/4 - 2 3/4 l. in long, corolla 2 - 2 1/4 l. in long, tube cylindric, ~~ovate~~ or ~~oblong~~ throat ~~dilated~~, ~~or very short~~ glands below the throat of the tube; scales ~~above~~ shorter than the ovate, attached to the middle of the tube, and covering the base of the ovate anthers, ~~above~~ the throat; style much shorter than the oval or subglobose ovary, ~~of~~ the length of the oval stigma ~~distinctly expanded~~ capitate or ~~shape and length~~ of corolla tube to ~~the~~ ~~calyx~~ the next species, especially to the ~~next~~ ~~above~~ form; ~~stigma~~ pistil ~~as~~ as that of the last ~~species~~; ~~pubescence~~ of scales quite peculiar. I class with this a peculiar form from Asia minor:

var. β squamata: pedicels as long as the calyx; oblong lobes of corolla still more distinctly ~~erect~~ spreading, ~~not~~ much shorter than the tube ~~erect~~ ~~in fruit~~ and ~~of~~ the ovate anthers still shorter; scales entirely adnate ~~equally~~ ~~leaving~~ ~~quite~~ a distinct rest on both sides; stigma globose or oval, obscurely ~~bifid~~ ~~not~~ or ~~simple~~ ~~even~~ Asia minor, Balansa 411. — Flowers 2/2 corolla 2 lin. long, ~~not~~ ~~deeply~~ divided than all the ~~species~~, and ~~the~~ more deeply ~~erect~~.

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Krok.

B. C. Cupulifornis Krocker! Sites. p. 261. t. 36.

~~Cupuliferæ~~ Cupuloniyna aut. ~~Fl.~~ Bot. germ. al. — ~~Fam. Holsten~~ On
Willows etc On the banks of streams pr ~~Middle~~ Eastern
& northeastern Germany, Silesia (Austria, Kovats,
to Hungary, Jerenday! & to outta Oder usken, i'ves to become
outta Russia, Kasan, Graff!

Flowers subsessile or at last on slightly elongated
peduncles, ~~racemes~~ small cymes in elongated spiky
or sometimes more or less compound racemes, which
are always terminated by a ~~little~~ 2- or 3 flowered
cyme; flowers 2–2½ ~~rarely~~ ~~3~~ lines long;
calyx and Corolla Doubly ovate obtuse half as long as tube of flower
lobes of calyx oval, fleshy or ~~woolly~~ ciliate, especially
on the margin membranous; outside linear sessile
below the thyrsus, scales/bracts short & ~~Bracts~~ to the ~~Cupule~~ on
the middle of the tube, ~~bear the upper the naked~~ ~~Not reach~~ ~~the outside~~
~~much shorter~~ or reduced to ~~linear~~ ~~Bracteate~~ wings
and
ovary oval, attenuate into the slender style, which
is much longer than the globose or oval deeply lobed
stigma. Cupule round 3–4 lines long
Seeds (oval, triquetrous) nutlets, 1¼–1½ lines long,
Var. β. *Middendorffii* flowers ~~often~~ longer peduncled
more slender with more ovate & ovate-lanceolate & sometimes
pointed leaves, ~~cupule~~ scales (bracts) not fleshy
pointed ciliate, ~~Bracts~~ ovate
(From the banks of the
Volga ~~Dahuria~~ Baikal! Or Solix, Tamir & Ta
where it connects with the Western form ~~of the Caucasus~~ (East)
Through the south parts of Siberia
Russia Caucasus, Hb. Hook! Soongaria, Schrenk!
229 & 306. b (a form with very slender
flowers — long peduncles) Buchtarminsk
Karelin & Kiril Coff! 926, Altai Ledeb!
Bunge! to the Rive Angara, Turczaninoff!

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Drymostyla

As above stated this plant is usually known as C. monogyna, though C. lagenaeformis is

C. lagenaeformis is by 4 years the older name, having been published with description in 1787, and it therefore has to take its place, if it did not appear that both names refer, as I have above to two different plants, the former extending both north from Quebec to east north of the 43° or 44° degree of latitude, and the latter south of that latitude.—

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Thus far C. lagenaeformis having been published in 1787 has by 4 years the priority over C. m. published in 1791, and must stand for the species with those two botanists, all those who consider them as identical with all
plants, which have been referred to one or the other species; but it so happens, that C. lagenaeformis designates the species which north of the 43 or 44 degree ext. exclusively the parts of Canada the East Canada and Acadia — as C. mon
grows that which south of that latitude grows.

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74 (C. gigantea Griffith. Notul. I. 243 in
~~Pl.~~ Afghanistan, 2 on Tamarix; Griffith! 683
~~or~~ 1031) Siah sung ravine, 10300 feet high)
— Griffith's specimens are on Tamarix and
not on Salix or Populus, as he says in his
Notulae, nor are the stems viz Thick, but
rather filiform; otherwise his details descrip-
tion agrees so well with the specimens — that
(especially what he says abt the lacunae,
the scales & the stigmas), I can not
doubt that he had this species in view.
The inflorescence forms short racemose spikes aft.
the manner of the section, but shorter, only 2-2½
inch long; flowers on short pedicels, 2"/2-2¼
l. long, calyx 4 cobtuse rounded ½ of the tube, laci-
niae obtuse, petals or reflexed,
not much shorter than the tube; ovary conic
rather very large, subsessile a little below
the throat; scales oval, glabrous, from the
base of the tube nearly to its middle
style as long as the ovary & the ovary long
obovate, somewhat ligulate (elliptic-oblong
in ft.) stigmas.

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Cuscuta Japonica Choisy! Plant. Jolling. 1854 p. 130
& Bl. Jav. 1858 p. 30. — Hei species extends in several
forms all ally th eastern coast of Asia
from the China; all th different varieties
are distinguished by a a very short cupulate
calyx with rounded lob strongly mitelt lobes
which never rarely more th one 1/4 of th corolla,
th ovule ovoid or rounded very slightly crenulate
& somatimes cupulate patelly or rolled th ovule,
which are 1/2 or 1/3 th length of the
cylindrical, slightly widing tube; th oval
anthers sessile or subsessile at th
throat of th tube Division of th calyx,
th entire, ovate fruhusts scales, th ovary
style with 2 ovate, more or less subulate or conic
stigmas. Thyrsoidea
Var. β. genuina: flowers 2 1/2 - 3 l. long (many flowers
of 2" l. 1/2 or th
thyrsoidal spike; flowers a compact
subsessile, both sexes 2 1/2 long
anthers sessile or subsessile, style longer than ovate
conic ovary; stigmas short conic scales meeting at
next to th base of th anthers. — Hei in
China, Japan, Jolling. 1854. 355
& Cuscuta also C. reflexa van deuflora Benth! — Hk.
Hongkong, China, Abbé Fauret! Maj.: Champion! 457
Cu Epilinum Maximi! Prim. L. H. Amer. incd.
x ex Hongkong th same plant with shorter scales
and more or less th rest stigmata
(fr th Coast Amer
Var. β. pedicellata
1-2 l. high; same as th
Coozeh Pass; flowers shortly pedicellate, scales
broad & a lh; anthers sessile, scales
only half as long as th tube, stigmas
short conic.

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as long as style, and ovary. — C. colorans
Maximowicz Tsch. l.c. — Pekin, China Kirilow!
— Hb. Fischer, now Hb. K.B. Petrop. —

Var. γ? fissistyla, stigmas
last, broad & oft confluent, from th
middle of the tube, not reaching to the base of the
anthers; style bifid to ½ of the length,
stigmas short & erect. — Hongkong,
Chs. Wright 486 — N. Sc. North Am. Expl. Exp.

The subulate stigmas and the
more pentagonal than thick capsules indicate
a close approach to the next section, which
the Hb. Benth. even to conduct that he
considers it a variety of it, but the
structure of the capsule with the persis-
tent on top with the disappeared short
in the base show that it is a true Mangy-
nella. — The Siberian known as
is detached is membranous with a thick
centre, but with the thick, pale like
rim of the other Cotoneaster allied species.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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